



Year: Three

Subject: SCIENCE

Topic: Light

1. What I should already know:

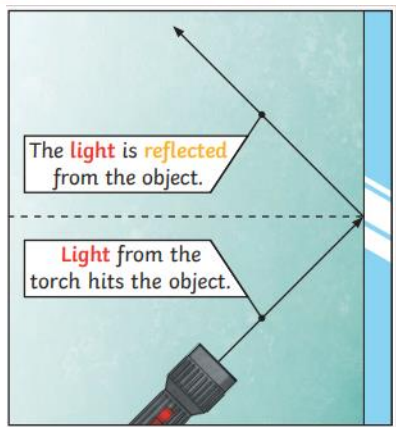
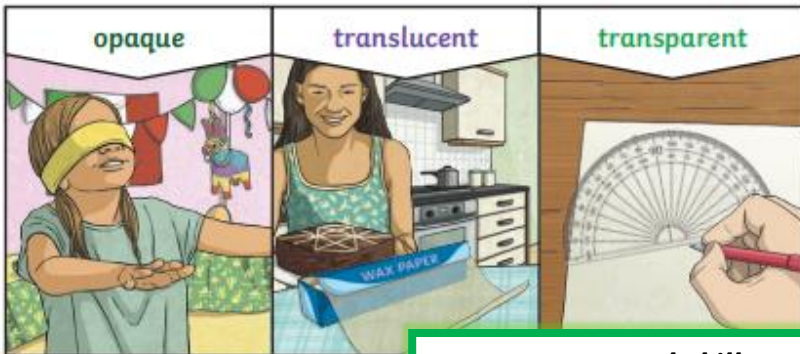
Y1 – I can explain that it is dangerous for our eyes to look directly at the sun.

- I can understand shadows and how they are formed.

2. What I am going to learn:

- That we need light in order to see things, whilst darkness is the absence of light.
- Light travels in straight lines. When it bounces off an object, this causes a reflection. When it is blocked by an object, this causes shadows.
- Flat mirrors create clear images because they are good reflectors.
- UV light comes from the sun but we cannot see it.
- The sun can damage our eyes and skin and so we must protect ourselves.
- To understand the terms opaque, translucent and transparent.

3. Diagram / picture / quotation:



5. Resources and skills to help me learn.

Have a look around your home. Can you see which materials let light through and which ones block it out?

Choose an object in your garden (such as a rock), is there a shadow caused by the sun? Check the rock every hour. Does the shadow change shape or move?

4. Important vocabulary and facts:

Key Vocabulary	
pupil	The black part of the eye which lets light in.
retina	A layer at the very back of the eye. The retina takes the light the eye receives. It then changes it into nerve signals to send to the brain.
shadow	An area of darkness where light has been blocked.
opaque	Describes objects that do not let any light pass through them.
translucent	Describes objects that let some light through, but scatter the light so we can't see through them properly.
transparent	Describes objects that let light travel through them easily, meaning that you can see through the object.

Key Vocabulary	
light	A form of energy that travels in a wave from a source.
light source	An object that makes its own light.
dark	Dark is the absence of light.
reflection	The process where light hits the surface of an object and bounces back into our eyes.
reflect	To bounce off.
reflective	A word to describe something which reflects light well.
ray	Waves of light are called light rays. They can also be called beams.